

<p>FORM PTO-1449</p> <p>U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p>(Use several sheets if necessary)</p>	<p>ATTY. DOCKET NO. TAN-2-1403.06.US</p>	<p>SERIAL NO. 09/997,733</p>
	<p>APPLICANT James A. Proctor, Jr.</p>	
	<p>FILING DATE November 29, 2001</p>	<p>GROUP 2616</p>

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		4,107,469	08/1978	Jenkins			
		4,577,316	03/1986	Schiff			
		4,625,308	11/1986	Kim et al.			
		4,675,863	06/1987	Paneth et al.			
		4,817,089	03/1989	Paneth et al.			
		4,841,526	06/1989	Wilson et al.			
		4,862,453	08/1989	West et al.			
		4,866,709	09/1989	West et al.			
		4,912,705	03/1990	Paneth et al.			
		4,949,395	08/1990	Rydbeck			
		5,022,024	06/1991	Paneth et al.			
		5,027,348	06/1991	Curry			
		5,027,400	06/1991	Baji et al.			
		5,068,916	11/1991	Harrison et al.			
		5,101,416	03/1992	Fenton et al.			
		5,103,459	04/1992	Gilhousen et al.			
		5,114,375	05/1992	Wellhausen et al.			
		5,115,309	05/1992	Hang			
		5,226,044	07/1993	Gupta et al.			
		5,268,900	12/1993	Hluchyj et al.			
		5,282,222	01/1994	Fattouche et al.			
		5,325,419	06/1994	Connolly et al.			
	*	5,353,332	10/1994	Raith et al.			
		5,355,374	11/1994	Hester et al.			
		5,373,502	12/1994	Turban			

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		5,375,124	12/1994	D'Ambrogio, et al.			
		5,388,102	02/1995	Griffith et al.			
		5,394,473	02/1995	Davidson			
		5,412,429	05/1995	Glover			
		5,414,728	05/1995	Zehavi			
		5,442,625	08/1995	Gitlin et al.			
		5,446,727	08/1995	Bruckert et al.			
		5,463,629	10/1995	Ko			
		5,471,463	11/1995	Hulbert			
		5,481,533	01/1996	Honig et al.			
		5,490,136	02/1996	Sereno et al.			
		5,511,068	04/1996	Sato			
		5,559,789	09/1996	Nakano et al.			
		5,581,575	12/1996	Zehavi et al.			
		5,585,850	12/1996	Schwaller			
		5,586,119	12/1996	Scribano et al.			
		5,590,409	12/1996	Sawahashi et al.			
		5,592,470	01/1997	Rudrapatna et al.			
		5,592,471	01/1997	Briskman			
		5,598,416	01/1997	Yamada et al.			
		5,606,580	02/1997	Mourot et al. <sup>1</sup>			
		5,617,423	04/1997	Li et al.			
		5,619,492	04/1997	Press et al.			
		5,642,348	06/1997	Barzegar et al.			
		5,642,377	06/1997	Chung et al.			

<sup>1</sup> Corresponds to EP 0635949

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		5,655,001	08/1997	Cline et al.			
		5,657,358	08/1997	Panech et al.			
		5,663,958	09/1997	Ward			
		5,663,990	09/1997	Bolgiano et al.			
		5,673,259	09/1997	Quick, Jr.			
		5,687,194	11/1997	Paneth et al.			
		5,689,502	11/1997	Scott			
		5,697,059	12/1997	Carney			
		5,699,364	12/1997	Sato et al.			
		5,708,656	01/1998	Noneman et al.			
		5,734,646	03/1998	I et al.			
		5,742,592	04/1998	Scholefield et al.			
		5,745,484	04/1998	Scott			
		5,758,288	05/1998	Dunn et al.			
		5,781,542	07/1998	Tanaka et al.			
	*	5,781,543	07/1998	Ault et al.			
		5,784,406	07/1998	DeJaco et al.			
		5,790,551	08/1998	Chan			
		5,790,549	08/1998	Dent			
		5,793,744	08/1998	Kanerva et al.			
		5,802,046	09/1998	Scott			
		5,802,465	09/1998	Hamalainen et al.			
	*	5,812,131	09/1998	Bertram			
		5,825,807	10/1998	Kumar			
		5,828,659	10/1998	Teder et al.			
		5,828,662	10/1998	Jalali et al.			

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		5,841,768	11/1998	Ozluturk et al.			
		5,844,894	12/1998	Dent			
		5,845,211	12/1998	Roach			
		5,854,786	12/1998	Henderson et al.			
		5,856,971	01/1999	Gitlin et al.			
		5,859,840	01/1999	Tiedemann, Jr. et al.			
		5,859,879	01/1999	Bolgiano et al.			
		5,872,786	02/1999	Shobatake			
		5,881,060	03/1999	Morrow et al.			
		5,881,368	03/1999	Grob et al.			
		5,884,196	03/1999	Lekven et al.			
		5,894,473	04/1999	Dent			
		5,896,376	04/1999	Alperovich et al.			
		5,898,929	04/1999	Haartsen			
		5,910,944	06/1999	Callicotte et al.			
		5,910,945	06/1999	Garrison et al.			
		5,914,950	06/1999	Tiedemann, Jr. et al.			
		5,923,650	07/1999	Chen et al.			
		5,930,230	07/1999	Odenwalder et al.			
		5,950,131	09/1999	Vilmur			
		5,956,332	09/1999	Rasanen et al.			
		5,959,980	09/1999	Scott			
		5,966,374	10/1999	Rasanen			
		5,991,279	11/1999	Haugli et al.			
		6,001,800	12/1999	Mehta et al.			
		6,002,690	12/1999	Takayama et al.			

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		6,009,106	12/1999	Rustad et al.			
		6,005,855	12/1999	Zehavi et al.			
		6,011,800	01/2000	Nadgauda et al.			
		6,016,312	01/2000	Storn et al.			
		6,028,868	02/2000	Yeung et al.			
	*	6,031,827	02/2000	Rikkinen et al.			
		6,049,535	04/2000	Ozluturk			
		6,049,538	04/2000	Scott			
		6,052,385	04/2000	Kanerva et al.			
		6,058,338	05/2000	Agashe et al.			
		6,064,678	05/2000	Sindhushayana et al.			
		6,069,880	05/1999	Owen et al.			
		6,069,883	05/2000	Ejzak et al.			
		6,078,572	06/2000	Tanno et al.			
		6,081,536	06/2000	Gorsuch et al.			
		6,088,335	07/2000	I et al.			
		6,094,421	07/2000	Scott			
		6,094,576	07/2000	Häkkinen et al.			
		6,097,733	08/2000	Basu et al.			
	*	6,101,176	08/2000	Honkasalo et al.			
	*	6,104,708	08/2000	Bergamo			
		6,111,863	08/2000	Rostoker et al.			
		6,112,092	08/2000	Benveniste			
		6,134,233	10/2000	Kay			
		6,151,332	11/2000	Gorsuch et al.			
		6,157,619	12/2000	Ozluturk et al.			

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		6,161,013	12/2000	Anderson et al.			
		6,163,707	12/2000	Miller			
		6,169,731	01/2001	Stewart et al.			
		6,196,362	02/2001	Darcie et al.			
		6,198,723	03/2001	Parruck et al.			
		6,208,871	03/2001	Hall et al.			
		6,212,175	04/2001	Harsch			
		6,214,342	04/2001	Rege			
		6,215,798	04/2001	Carneheim et al.			
		6,222,828	04/2001	Ohlson et al.			
		6,222,832	04/2001	Proctor			
		6,226,527	05/2001	Dalsgaard et al.			
		6,233,439	05/2001	Jalali			
		6,236,647	05/2001	Amalfitano			
		6,243,372	06/2001	Petch et al.			
		6,246,673	06/2001	Tiedmann et al.			
		6,259,683	07/2001	Sekine et al.			
		6,262,980	07/2001	Leung et al.			
		6,263,013	07/2001	Hendrickson			
		6,269,075	07/2001	Tran			
		6,269,088	07/2001	Masui et al.			
		6,272,168	08/2001	Lomp et al.			
		6,285,665	09/2001	Chuah			
		6,307,840	10/2001	Wheatley III et al.			
		6,310,859	10/2001	Morita et al.			
		6,353,412	03/2002	Soliman			

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		6,356,555	03/2002	Rakib			
		6,366,570	04/2002	Bhagalia			
		6,366,786	04/2002	Norman et al.			
		6,370,117	04/2002	Koraitim et al.			
		6,373,830	04/2002	Ozluturk			
		6,373,834	04/2002	Lundh et al.			
		6,377,548	04/2002	Chuah			
		6,377,809	04/2002	Rezaiifar et al.			
		6,388,999	05/2002	Gorsuch et al.			
		6,389,000	05/2002	Jou			
		6,396,804	05/2002	Odenwalder			
		6,418,148	07/2002	Kumar et al.			
		6,452,913	09/2002	Proctor, Jr.			
		6,456,608	09/2002	Lomp			
		6,469,991	10/2002	Chuah			
		6,473,623	10/2002	Benveniste			
		6,498,785	12/2002	Derryberry et al.			
		6,498,790	12/2002	Shaheen et al.			
		6,504,830	01/2003	Östberg et al.			
		6,519,452	02/2003	Agostino et al.			
		6,519,651	02/2003	Dillon			
		6,526,039	02/2003	Dahlman et al.			
		6,526,064	02/2003	Bousquet2			
		6,526,281	02/2003	Gorsuch et al.			
		6,532,365	03/2003	Anderson et al.			

2 Corresponds to FR 2761557

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		6,542,481	04/2003	Foore et al.			
		6,545,986	04/2003	Stellakis			
	*	6,545,994	04/2003	Nelson et al.			
		6,567,416	05/2003	Chuah			
		6,570,865	05/2003	Masui et al.			
		6,571,296	05/2003	Dillon			
		6,574,211	06/2003	Padovani et al.			
		6,597,913	07/2003	Natarajan			
		6,687,509	02/2004	Schmutz et al.			
		6,745,484	04/1998	Scott			
		6,768,727	07/2004	Sourour et al.			
	*	6,795,416	09/2004	Han et al.			
		6,831,910	12/2004	Moon et al.			
		2001/0038674	11/2001	Trans			
		2002/0012332	05/2002	Tiedmann et al.			
	*	2003/0060224	03/2003	Nelson et al.			
		2003/0123401	07/2003	Dean			
	*	2004/0009785	01/2004	Nelson et al.			
		2004/0160910	08/2004	Gorsuch et al.			
		2004/0180696	09/2004	Foore et al.			

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
		443061	08/1991	EP				
		526106	02/1993	EP				
		682423	11/1995	EP				

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
		682426	11/1995	EP				
		719062	06/1996	EP				
		720309	12/1995	EP				
		2326524	12/1998	GB				
		95/08900	03/1995	WO				
		96/08934	03/1996	WO				
		96/27994	12/1996	WO				
		96/37081	11/1996	WO				
		97/23073	06/1997	WO				
		97/26726	07/1997	WO				
		97/32412	09/1997	WO				
		97/46044	12/1997	WO				
		99/31811	06/1999	WO				
		99/52306	10/1999	WO				
		99/63682	12/1999	WO				

## OTHER DOCUMENTS

EXAMINER INITIAL		DESCRIPTION (Including Author, Title, Date, Pertinent Pages, Etc.)
		Attachment 2, <i>High Speed Data RLP</i> Lucent Technologies, Version 0.1, January 16, 1997.
		Azad et al., Multirate Spread Spectrum Direct Sequence CDMA Techniques, 1994, The Institute of Electrical Engineers.
		Bell Labs Technical Journal, Lucent Technologies, Volume 2, Number 3, Summer 1997.

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EXAMINER INITIAL	DESCRIPTION (Including Author, Title, Date, Pertinent Pages, Etc.)
	Budka et al., Cellular Digital Packet Data Networks, Bell Labs Technical Journal, Summer 1997, Pages 164-181.
	Cellular Digital Packet Data, System Specification, Release 1.1, January 19, 1995.
	Chih-Lin I et al., IS-95 Enhancements for Multimedia Services, Bell Labs Technical Journal, Pages 60-87, Autumn 1996.
	Chih-Lin I et al., Load and Interference Based Demand Assignment (LIDA) for Integrated Services in CDMA Wireless Systems, November 18, 1996, Pages 235-241.
	Chih-Lin I et al., Multi-Code CDMA Wireless Personal Communications Networks, June 18, 1995.
	Chih-Lin I et al., Performance of Multi-Code CDMA Wireless Personal Communications Networks, July 25, 1995.
	Chih-Lin I et al., Variable Spreading Gain CDMA with Adaptive Control for True Packet Switching Wireless Network, 1995, Pages 725-730.
	Chung, Packet Synchronization and Identification for Incremental Redundancy Transmission in FH-CDMA Systems, 1992, IEEE, Pages 292-295.
	<i>Data Service Options for Wideband Spread Spectrum Systems. TIA/EIA Interim Standard. TIA/EIA/IS-707-A. April 1999.</i>
	Data Service Options for Wideband Spread Spectrum Systems: Introduction, PN-3676. 1 (to be published as TIA/EIA/IS-707.1), March 20, 1997 (Content Revision 1).
	<i>Data Services Option Standard for Wideband Spread Spectrum Digital Cellular System. TIA/EIA/IS-99. TIA/EIA Interim Standard. July 1995.</i>
	<i>Data Services Options Standard for Wideband Spread Spectrum Systems: Packet Data Services. PN-3676.5 (to be published as TIA/EIA/IS-707.5) Ballot Version, May 30, 1997.</i>

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EXAMINER INITIAL		DESCRIPTION (Including Author, Title, Date, Pertinent Pages, Etc.)
		Data Standard, Packet Data Section, PN-3676.5 (to be published as TIA/EIA/IS-DATA.5), December 8, 1996, Version 02 (Content Revision 03).
		Draft Text for "95C" Physical Layer (Revision 4), Part 1, Document #531-981-20814-95C, Part 1 on 3GPP2 website ( <a href="ftp://ftp.3gpp2.org/tsgc/working/1998/1298_Maui/WG3-TG1/531-98120814-95c,%20part%201.pdf">ftp://ftp.3gpp2.org/tsgc/working/1998/1298_Maui/WG3-TG1/531-98120814-95c,%20part%201.pdf</a> ).
		Draft Text for "95C" Physical Layer (Revision 4), Part 2, Document #531-981-20814-95C, part 2 on 3GPP2 website ( <a href="ftp://ftp.3gpp2.org/tsgc/working/1998/1298_Maui/WG3-TG1/531-98120814-95c,%20part%202.pdf">ftp://ftp.3gpp2.org/tsgc/working/1998/1298_Maui/WG3-TG1/531-98120814-95c,%20part%202.pdf</a> , 1998).
		Ejzak et al., Lucent Technologies Air Interface Proposal for CDMA High Speed Data Service, Revision 0.1, May 5, 1997.
		Ejzak et al., Lucent Technologies Air Interface Proposal for CDMA High Speed Data Service, April 14, 1997.
		Ejzak, et al. <i>Proposal for High Speed Packet Data Service, Version 0.1</i> . Lucent Technologies, January 16, 1997.
		Elhakeem, Congestion Control in Signalling Free Hybrid ATM/CDMA Satellite Network, IEEE, 1995, Pages 783-787.
		Hall et al., Design and Analysis of Turbo Codes on Rayleigh Fading Channels, IEEE Journal on Selected Areas in Communications, Vol. 16, No. 2, February 1998, Pages 160-174.
		Heine, Gunnar, "The Air-Interface of GSM", in GSM Networks: Protocols, Terminology, and Implementation, (MA: Artech House, Inc.), pp. 89-100 (1999)
		High Data Rate (HDR) Solution, Qualcomm, December 1998.
		High Data Rate (HDR), cdmaOne optimized for high speed, high capacity data, Wireless Infrastructure, Qualcomm, September 1998.
		Hindelang et al., Using Powerful "Turbo" Codes for 14.4 Kbit/s Data Service in GSM or PCS Systems, IEEE Global Communications Conference, Phoenix, Arizona, USA, November 3-8, 1997, Vol. II, Pages 649-653.

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	APPLICANT James A. Proctor, Jr.	
	FILING DATE November 29, 2001	GROUP 2616

EXAMINER INITIAL	DESCRIPTION (Including Author, Title, Date, Pertinent Pages, Etc.)
	Honkasalo, Harri. <i>High Speed Data Air Interface</i> . 1996.
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		Melanchuk et al. <i>CDPD and Emerging Digital Cellular Systems</i> , Digest of Papers of COMPCN, Computer Society Conference 1996, Santa Clara, CA, no. CONF. 41, February 25, 1996, pp. 2-8, XP000628458.
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		Reed et al., Iterative Multiuser Detection for CDMA with FEC: Near-Single-User Performance, IEEE Transactions on Communications, Vol. 46, No. 12, December 1998, Pages 1693-1699.
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		<p><u>WWW.CDG.ORG/NEWS/PRESS/1997.ASP. CDA Press Release Archive, 1997.</u></p>

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